

# Randall W Engle

## List of Publications by Year in descending order

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158  
papers

33,519  
citations

13068

68  
h-index

10127

140  
g-index

177  
all docs

177  
docs citations

177  
times ranked

15359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Working memory, short-term memory, and general fluid intelligence: A latent-variable approach.. Journal of Experimental Psychology: General, 1999, 128, 309-331.	1.5	2,398
2	Working memory span tasks: A methodological review and user's guide. Psychonomic Bulletin and Review, 2005, 12, 769-786.	1.4	1,984
3	Working Memory Capacity as Executive Attention. Current Directions in Psychological Science, 2002, 11, 19-23.	2.8	1,850
4	Is working memory capacity task dependent?. Journal of Memory and Language, 1989, 28, 127-154.	1.1	1,737
5	The role of prefrontal cortex in working-memory capacity, executive attention, and general fluid intelligence: An individual-differences perspective. Psychonomic Bulletin and Review, 2002, 9, 637-671.	1.4	1,718
6	An automated version of the operation span task. Behavior Research Methods, 2005, 37, 498-505.	2.3	1,344
7	Working-memory capacity and the control of attention: The contributions of goal neglect, response competition, and task set to Stroop interference.. Journal of Experimental Psychology: General, 2003, 132, 47-70.	1.5	1,288
8	The Generality of Working Memory Capacity: A Latent-Variable Approach to Verbal and Visuospatial Memory Span and Reasoning.. Journal of Experimental Psychology: General, 2004, 133, 189-217.	1.5	1,288
9	A controlled-attention view of working-memory capacity.. Journal of Experimental Psychology: General, 2001, 130, 169-183.	1.5	1,067
10	The nature of individual differences in working memory capacity: Active maintenance in primary memory and controlled search from secondary memory.. Psychological Review, 2007, 114, 104-132.	2.7	959
11	Is working memory training effective?. Psychological Bulletin, 2012, 138, 628-654.	5.5	892
12	Working memory capacity and its relation to general intelligence. Trends in Cognitive Sciences, 2003, 7, 547-552.	4.0	889
13	Working memory, short-term memory, and general fluid intelligence: a latent-variable approach. Journal of Experimental Psychology: General, 1999, 128, 309-331.	1.5	745
14	Individual Differences in Working Memory Capacity and Dual-Process Theories of the Mind.. Psychological Bulletin, 2004, 130, 553-573.	5.5	699
15	Individual Differences in Working Memory Capacity and What They Tell Us About Controlled Attention, General Fluid Intelligence, and Functions of the Prefrontal Cortex. , 1999, , 102-134.		641
16	No evidence of intelligence improvement after working memory training: A randomized, placebo-controlled study.. Journal of Experimental Psychology: General, 2013, 142, 359-379.	1.5	503
17	On the division of short-term and working memory: An examination of simple and complex span and their relation to higher order abilities.. Psychological Bulletin, 2007, 133, 1038-1066.	5.5	471
18	Air pollution, cognitive deficits and brain abnormalities: A pilot study with children and dogs. Brain and Cognition, 2008, 68, 117-127.	0.8	450

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19	The role of working memory capacity in retrieval.. Journal of Experimental Psychology: General, 1997, 126, 211-227.	1.5	428
20	Executive Attention, Working Memory Capacity, and a Two-Factor Theory of Cognitive Control. Psychology of Learning and Motivation - Advances in Research and Theory, 2003, 44, 145-199.	0.5	406
21	Working-memory capacity, proactive interference, and divided attention: Limits on long-term memory retrieval.. Journal of Experimental Psychology: Learning Memory and Cognition, 2000, 26, 336-358.	0.7	405
22	Individual differences in working memory and comprehension: A test of four hypotheses.. Journal of Experimental Psychology: Learning Memory and Cognition, 1992, 18, 972-992.	0.7	404
23	Individual Differences in Delay Discounting. Psychological Science, 2008, 19, 904-911.	1.8	391
24	Working memory and retrieval: A resource-dependent inhibition model.. Journal of Experimental Psychology: General, 1994, 123, 354-373.	1.5	386
25	Measuring Working Memory Capacity With Automated Complex Span Tasks. European Journal of Psychological Assessment, 2012, 28, 164-171.	1.7	322
26	Complex working memory span tasks and higher-order cognition: A latent-variable analysis of the relationship between processing and storage. Memory, 2009, 17, 635-654.	0.9	321
27	Working Memory Capacity and the Antisaccade Task: Individual Differences in Voluntary Saccade Control.. Journal of Experimental Psychology: Learning Memory and Cognition, 2004, 30, 1302-1321.	0.7	301
28	Classical Conditioning of Consumer Attitudes: Four Experiments in an Advertising Context. Journal of Consumer Research, 1987, 14, 334.	3.5	295
29	Working-memory capacity, proactive interference, and divided attention: limits on long-term memory retrieval. Journal of Experimental Psychology: Learning Memory and Cognition, 2000, 26, 336-58.	0.7	283
30	Simple and complex word spans as measures of working memory capacity.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 1118-1133.	0.7	276
31	Working Memory Training May Increase Working Memory Capacity but Not Fluid Intelligence. Psychological Science, 2013, 24, 2409-2419.	1.8	258
32	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. Brain and Cognition, 2011, 77, 345-355.	0.8	256
33	The mechanisms of working memory capacity: Primary memory, secondary memory, and attention control. Journal of Memory and Language, 2014, 72, 116-141.	1.1	243
34	Working Memory Capacity and Suppression. Journal of Memory and Language, 1998, 39, 418-436.	1.1	241
35	A Program of Classical Conditioning Experiments Testing Variations in the Conditioned Stimulus and Context. Journal of Consumer Research, 1991, 18, 1.	3.5	235
36	Effects of Domain Knowledge, Working Memory Capacity, and Age on Cognitive Performance: An Investigation of the Knowledge-Is-Power Hypothesis. Cognitive Psychology, 2002, 44, 339-387.	0.9	228

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37	Cogmed working memory training: Does the evidence support the claims?. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 185-193.	0.7	211
38	Shortened complex span tasks can reliably measure working memory capacity. <i>Memory and Cognition</i> , 2015, 43, 226-236.	0.9	206
39	A Resource Account of Inhibition. <i>Psychological Science</i> , 1995, 6, 122-125.	1.8	204
40	Does working memory training generalize?. <i>Psychologica Belgica</i> , 2013, 50, 245.	1.0	193
41	Working-memory capacity as long-term memory activation: An individual-differences approach.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1993, 19, 1101-1114.	0.7	191
42	Working Memory and Executive Attention: A Revisit. <i>Perspectives on Psychological Science</i> , 2018, 13, 190-193.	5.2	186
43	Simple and complex memory spans and their relation to fluid abilities: Evidence from list-length effects. <i>Journal of Memory and Language</i> , 2006, 54, 68-80.	1.1	180
44	Focusing the spotlight: Individual differences in visual attention control.. <i>Journal of Experimental Psychology: General</i> , 2007, 136, 217-240.	1.5	175
45	Working memory capacity and attention network test performance. <i>Applied Cognitive Psychology</i> , 2006, 20, 713-721.	0.9	171
46	Individual Differences in Working Memory for Comprehension and Following Directions. <i>Journal of Educational Research</i> , 1991, 84, 253-262.	0.8	166
47	Working Memory Capacity and Fluid Intelligence. <i>Perspectives on Psychological Science</i> , 2016, 11, 771-799.	5.2	160
48	Role of Working Memory Capacity in Cognitive Control. <i>Current Anthropology</i> , 2010, 51, S17-S26.	0.8	149
49	Reaction time in differential and developmental research: A review and commentary on the problems and alternatives.. <i>Psychological Bulletin</i> , 2019, 145, 508-535.	5.5	142
50	Individual differences in working memory capacity and learning: Evidence from the serial reaction time task. <i>Memory and Cognition</i> , 2005, 33, 213-220.	0.9	141
51	Is Playing Video Games Related to Cognitive Abilities?. <i>Psychological Science</i> , 2015, 26, 759-774.	1.8	136
52	Working memory capacity and the top-down control of visual search: Exploring the boundaries of "executive attention".. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2006, 32, 749-777.	0.7	133
53	Memory Processes among Bridge Players of Differing Expertise. <i>American Journal of Psychology</i> , 1978, 91, 673.	0.5	132
54	Short-term memory, working memory, and verbal abilities: How do they relate?. <i>Intelligence</i> , 1991, 15, 229-246.	1.6	132

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55	Validating running memory span: Measurement of working memory capacity and links with fluid intelligence. <i>Behavior Research Methods</i> , 2010, 42, 563-570.	2.3	122
56	Individual differences in working memory capacity predict visual attention allocation. <i>Psychonomic Bulletin and Review</i> , 2003, 10, 884-889.	1.4	121
57	The effect of memory load on negative priming: An individual differences investigation. <i>Memory and Cognition</i> , 1999, 27, 1042-1050.	0.9	117
58	Variation in Working Memory Capacity as Variation in Executive Attention and Control. , 2008, , 21-48.		110
59	Individual differences in working memory capacity and enumeration. <i>Memory and Cognition</i> , 2001, 29, 484-492.	0.9	106
60	The relationship between baseline pupil size and intelligence. <i>Cognitive Psychology</i> , 2016, 91, 109-123.	0.9	105
61	Forward and backward serial recall. <i>Intelligence</i> , 1997, 25, 37-47.	1.6	104
62	Is "working memory capacity" just another name for word knowledge?. <i>Journal of Educational Psychology</i> , 1990, 82, 799-804.	2.1	100
63	Effects of incentive on working memory capacity: Behavioral and pupillometric data. <i>Psychophysiology</i> , 2008, 45, 119-129.	1.2	97
64	Working memory capacity and go/no-go task performance: Selective effects of updating, maintenance, and inhibition.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2011, 37, 308-324.	0.7	95
65	Combining Reaction Time and Accuracy. <i>Perspectives on Psychological Science</i> , 2016, 11, 133-155.	5.2	95
66	Working memory capacity and the scope and control of attention. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 1863-1880.	0.7	93
67	A toolbox approach to improving the measurement of attention control.. <i>Journal of Experimental Psychology: General</i> , 2021, 150, 242-275.	1.5	92
68	Cognitive predictors of a common multitasking ability: Contributions from working memory, attention control, and fluid intelligence.. <i>Journal of Experimental Psychology: General</i> , 2016, 145, 1473-1492.	1.5	90
69	What is working memory capacity?. , 0, , 297-314.		87
70	Trait and State Differences in Working Memory Capacity. <i>Plenum Series on Human Exceptionality</i> , 2010, , 295-320.	2.0	85
71	Dissociable brain mechanisms for inhibitory control: effects of interference content and working memory capacity. <i>Cognitive Brain Research</i> , 2003, 18, 26-38.	3.3	82
72	Quantifying Inhibitory Control as Externalizing Proneness: A Cross-Domain Model. <i>Clinical Psychological Science</i> , 2018, 6, 561-580.	2.4	78

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73	Working memory capacity and resistance to interference. <i>Journal of Memory and Language</i> , 2004, 51, 80-96.	1.1	72
74	Working Memory and Retrieval: An Inhibition-Resource Approach. , 1996, , 89-116.		72
75	Interference within the focus of attention: Working memory tasks reflect more than temporary maintenance.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2013, 39, 277-289.	0.7	70
76	The scope and control of attention as separate aspects of working memory. <i>Memory</i> , 2012, 20, 608-628.	0.9	67
77	Speed and accuracy of accessing information in working memory: An individual differences investigation of focus switching.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2008, 34, 616-630.	0.7	65
78	Attention Control: A Cornerstone of Higher-Order Cognition. <i>Current Directions in Psychological Science</i> , 2020, 29, 624-630.	2.8	61
79	A temporal“contextual retrieval account of complex span: An analysis of errors”†. <i>Journal of Memory and Language</i> , 2006, 54, 346-362.	1.1	60
80	Working Memory Capacity, Attention Control, and Fluid Intelligence. , 2005, , 61-78.		59
81	Working Memory Capacity is Decreased in Sleep-Deprived Internal Medicine Residents. <i>Journal of Clinical Sleep Medicine</i> , 2009, 05, 191-197.	1.4	58
82	Structural and strategic factors in the stimulus suffix effect. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1981, 20, 346-357.	3.8	57
83	Why is working memory capacity related to matrix reasoning tasks?. <i>Memory and Cognition</i> , 2015, 43, 389-396.	0.9	57
84	Faster, smarter? Working memory capacity and perceptual speed in relation to fluid intelligence. <i>Journal of Cognitive Psychology</i> , 2012, 24, 844-854.	0.4	51
85	The modality effect: Is precategorical acoustic storage responsible?. <i>Journal of Experimental Psychology</i> , 1974, 102, 824-829.	1.5	50
86	The Role of Working Memory in Problem Solving. , 2003, , 176-206.		50
87	Voice change in the stimulus suffix effect: Are the effects structural or strategic?. <i>Memory and Cognition</i> , 1983, 11, 551-556.	0.9	49
88	Do the effects of working memory training depend on baseline ability level?. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2017, 43, 1677-1689.	0.7	48
89	Working memory, executive function, and general fluid intelligence are not the same. <i>Behavioral and Brain Sciences</i> , 2006, 29, 135-136.	0.4	47
90	Rapid communication: Integrating working memory capacity and context-processing views of cognitive control. <i>Quarterly Journal of Experimental Psychology</i> , 2011, 64, 1048-1055.	0.6	47

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91	An Ecological Approach to Studying Aging and Dual-Task Performance. , 2005, , 190-218.		40
92	Lapsed attention to elapsed time? Individual differences in working memory capacity and temporal reproduction. <i>Acta Psychologica</i> , 2011, 137, 115-126.	0.7	39
93	The modality effect: What happens in long-term memory?. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1976, 15, 519-527.	3.8	38
94	What item response theory can tell us about the complex span tasks.. <i>Psychological Assessment</i> , 2018, 30, 116-129.	1.2	37
95	Working memory training remains a work in progress.. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 217-219.	0.7	34
96	Teaching awareness of strategic behavior in combination with strategy training: Effects on children's memory performance. <i>Journal of Experimental Child Psychology</i> , 1981, 32, 513-530.	0.7	33
97	Working Memory Capacity in Hot and Cold Cognition. , 2005, , 19-43.		32
98	Working Memory Capacity and Visual Attention: Top-Down and Bottom-Up Guidance. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 401-407.	0.6	32
99	Effects of sleep deprivation on cognitive performance by United States Air Force pilots.. <i>Journal of Applied Research in Memory and Cognition</i> , 2012, 1, 27-33.	0.7	32
100	Individual Differences in Working Memory Capacity and Temporal Discrimination. <i>PLoS ONE</i> , 2011, 6, e25422.	1.1	30
101	Brain-Training Pessimism, but Applied-Memory Optimism. <i>Psychological Science in the Public Interest: A Journal of the American Psychological Society</i> , 2016, 17, 187-191.	6.7	29
102	Attention control: The missing link between sensory discrimination and intelligence. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 3445-3478.	0.7	29
103	Flavonol-rich dark cocoa significantly decreases plasma endothelin-1 and improves cognition in urban children. <i>Frontiers in Pharmacology</i> , 2013, 4, 104.	1.6	27
104	Measuring working memory capacity on the web with the online working memory lab (the OWL).. <i>Journal of Applied Research in Memory and Cognition</i> , 2016, 5, 478-489.	0.7	27
105	How long does the modality effect persist?. <i>Bulletin of the Psychonomic Society</i> , 1982, 19, 343-346.	0.2	26
106	Is baseline pupil size related to cognitive ability? Yes (under proper lighting conditions). <i>Cognition</i> , 2021, 211, 104643.	1.1	26
107	Imagery and abstractness in short-term memory.. <i>Journal of Experimental Psychology</i> , 1970, 84, 268-272.	1.5	25
108	Do developmental changes in digit span result from acquisition strategies?. <i>Journal of Experimental Child Psychology</i> , 1983, 36, 429-436.	0.7	25

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109	Psychotropic placebos reduce the misinformation effect by increasing monitoring at test. <i>Memory</i> , 2008, 16, 410-419.	0.9	25
110	Working memory capacity is decreased in sleep-deprived internal medicine residents. <i>Journal of Clinical Sleep Medicine</i> , 2009, 5, 191-7.	1.4	25
111	The role of attention control in complex real-world tasks. <i>Psychonomic Bulletin and Review</i> , 2022, 29, 1143-1197.	1.4	23
112	Strategy training and semantic encoding in mildly retarded children. <i>Intelligence</i> , 1979, 3, 17-30.	1.6	22
113	Wonderlic, working memory capacity, and fluid intelligence. <i>Intelligence</i> , 2015, 50, 186-195.	1.6	21
114	Fluid intelligence and the locus coeruleusâ€™ norepinephrine system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
115	Does echoic memory develop?. <i>Journal of Experimental Child Psychology</i> , 1981, 32, 459-473.	0.7	17
116	Echoic memory processes in good and poor readers.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1986, 12, 402-412.	0.7	15
117	Attention control and process overlap theory: Searching for cognitive processes underpinning the positive manifold. <i>Intelligence</i> , 2022, 91, 101629.	1.6	15
118	Recency and suffix effects found with auditory presentation and with mouthed visual presentation: They're not the same thing. <i>Journal of Memory and Language</i> , 1987, 26, 138-164.	1.1	14
119	Working memory capacity accounts for the ability to switch between object-based and location-based allocation of visual attention. <i>Memory and Cognition</i> , 2015, 43, 379-388.	0.9	14
120	Study Modality and False Recall. <i>Experimental Psychology</i> , 2011, 58, 117-124.	0.3	14
121	The suffix effect: How many positions are involved?. <i>Memory and Cognition</i> , 1980, 8, 247-252.	0.9	13
122	Reducing adverse impact in high-stakes testing. <i>Intelligence</i> , 2021, 87, 101561.	1.6	13
123	Incidental encoding of goal irrelevant information is associated with insufficient engagement of the dorsal frontal cortex and the inferior parietal cortex. <i>Brain Research</i> , 2012, 1429, 82-97.	1.1	12
124	Low cognitive load strengthens distractor interference while high load attenuates when cognitive load and distractor possess similar visual characteristics. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 1659-1673.	0.7	12
125	The role of proactive interference in working memory training and transfer. <i>Psychological Research</i> , 2020, 84, 1635-1654.	1.0	12
126	Modality Effects: Do They Fall on Deaf Ears?. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 1989, 41, 273-292.	2.3	11



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127	The role of maintenance and disengagement in predicting reading comprehension and vocabulary learning.. Journal of Experimental Psychology: Learning Memory and Cognition, 2020, 46, 140-154.	0.7	11
128	Negative recency in delayed recognition. Journal of Verbal Learning and Verbal Behavior, 1974, 13, 209-216.	3.8	10
129	Differential and experimental approaches to studying intelligence in humans and non-human animals. Learning and Motivation, 2020, 72, 101689.	0.6	10
130	Is it lateralization, processing strategies, or both that distinguishes good and poor readers?. Journal of Experimental Child Psychology, 1982, 34, 1-19.	0.7	9
131	Suffix interference in the recall of linguistically coherent speech.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 446-456.	0.7	9
132	Effects of Same-Modality Interference on Immediate Serial Recall of Auditory and Visual Information. Journal of General Psychology, 1992, 119, 247-263.	1.6	8
133	Improving the Validity of the Armed Service Vocational Aptitude Battery with Measures of Attention Control. Journal of Applied Research in Memory and Cognition, 2020, 9, 323-335.	0.7	8
134	The visual arrays task: Visual storage capacity or attention control?. Journal of Experimental Psychology: General, 2021, 150, 2525-2551.	1.5	8
135	Effects of Modality of Presentation on Delayed Recognition. Perceptual and Motor Skills, 1977, 45, 1203-1210.	0.6	7
136	Maintenance and generalization of a semantic rehearsal strategy in educable mentally retarded children. Journal of Experimental Child Psychology, 1980, 30, 438-454.	0.7	7
137	The Role of Working Memory in Higher-Level Cognition: Domain-Specific versus Domain-General Perspectives. , 2004, , 104-121.		7
138	Age Differences and Individual Differences in Cognitive Functions. , 2005, , 44-72.		7
139	Chocolate, Air Pollution and Children's Neuroprotection: What Cognition Tools should be at Hand to Evaluate Interventions?. Frontiers in Pharmacology, 2016, 7, 232.	1.6	7
140	Individual Differences in Attention Control. , 2020, , 175-211.		7
141	A developmental study of the Prelinguistic Auditory Store (PAS). Intelligence, 1977, 1, 358-368.	1.6	6
142	The modality effect: Is it a result of different strategies?. Journal of Verbal Learning and Verbal Behavior, 1980, 19, 226-239.	3.8	6
143	The effect of instruction with relational and item-specific elaborative strategies on young children's organization and free recall. Journal of Experimental Child Psychology, 1984, 37, 282-302.	0.7	6
144	Understanding the relationship between rationality and intelligence: a latent-variable approach. Thinking and Reasoning, 2023, 29, 1-42.	2.1	6

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145	What do working-memory tests really measure?. Behavioral and Brain Sciences, 1999, 22, 101-102.	0.4	5
146	Stress and Working Memory: Between-Person and Within-Person Relationships. , 2005, , 73-94.		3
147	Comment From the Editor. Current Directions in Psychological Science, 2011, 20, 3-3.	2.8	3
148	Mechanisms of Working Memory Capacity and Fluid Intelligence and Their Common Dependence on Executive Attention. , 0, , 287-307.		3
149	The Aging of Cognitive Control: Studies of Conflict Processing, Goal Neglect, and Error Monitoring. , 2005, , 97-121.		2
150	Generative Reasoning as Influenced by Depression, Aging, Stereotype Threat, and Prejudice. , 2005, , 377-401.		2
151	Editor's Introduction: Special Issue on Racism. Current Directions in Psychological Science, 2018, 27, 147-147.	2.8	2
152	Is a science of the mind even possible? Reply to Logie (2018).. Journal of Applied Research in Memory and Cognition, 2018, 7, 493-498.	0.7	2
153	Mitochondrial Functioning and Its Relation to Higher-Order Cognitive Processes. Journal of Intelligence, 2020, 8, 14.	1.3	2
154	The influence of concurrent load on mouthed and vocalized modality effects. Memory and Cognition, 1989, 17, 701-711.	0.9	1
155	Effects of Vocabulary Size and Acoustic Similarity on Serial Recall of Mouthed Stimuli. Journal of General Psychology, 1994, 121, 361-376.	1.6	1
156	Cognitive Limitations in Aging and Psychopathology: An Introduction and a Brief Tutorial to Research Methods. , 2005, , 1-16.		0
157	Impairments of Memory and Reasoning in Patients with Neuropsychiatric Illness: Disruptions of Dynamic Cognitive Binding?. , 2005, , 346-376.		0
158	Individual Differences in Working Memory and Higher-Ordered Processing: The Commentaries. Plenum Series on Human Exceptionality, 2010, , 419-436.	2.0	0